

WEST**End of Result Set**☐ **Generate Collection**

L40: Entry 1 of 1

File: DWPI

Mar 7, 2001

DERWENT-ACC-NO: 2000-072384

DERWENT-WEEK: 200114

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TITLE: Co-processed compositions of acids and water soluble crystalline compounds

INVENTOR: HUZINEC, R; LE, A

PATENT-ASSIGNEE:

ASSIGNEE

HERSHEY FOODS CORP

SPI POLYOLS INC

CODE

HERSN

SPIPN

PRIORITY-DATA: 1998US-0080970 (May 19, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1079701 A1	March 7, 2001	E	000	A23G003/00
WO 9959427 A1	November 25, 1999	E	032	A23G003/00
AU 9940879 A	December 6, 1999		000	A23G003/00

DESIGNATED-STATES: DE FR GB AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE
ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK
MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW AT
BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ
UG ZW

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 1079701A1	May 19, 1999	1999EP-0924359	
EP 1079701A1	May 19, 1999	1999WO-US11072	
EP 1079701A1		WO 9959427	Based on
WO 9959427A1	May 19, 1999	1999WO-US11072	
AU 9940879A	May 19, 1999	1999AU-0040879	
AU 9940879A		WO 9959427	Based on

INT-CL (IPC): A23G 3/00; A23G 3/30

ABSTRACTED-PUB-NO: WO 9959427A

BASIC-ABSTRACT:

NOVELTY - Minimising degradation of an acid-sensitive additive by at least one acidulant in a low-moisture comestible, confectionery, pharmaceutical or dentifrice product which contains at least one acidulant (I) comprises preparing the prod with (I) in the form of a co-processed composition where the co-processed composition is prepared by co-processing the acidulant with at least one water-soluble crystalline compound (II) comprising sugar alcohols and/or sugars.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) a method of increasing salivation comprising chewing a low-moisture, comestible, confectionery, pharmaceutical or dentifrice product containing at least one (I) the product comprising (I) in the form of a co-processed composition prepared by co-processing the acidulent with at least one (II);
- (2) a method of removing or preventing the deposition of plaque on teeth comprising regularly chewing gum comprising a gum base (III), an abrasive (IV), and at least one (I) where (I) is in the form of a co-processed composition prepared by co-processing the (I) with at least one (II);
- (3) a comestible, confectionery, pharmaceutical or dentifrice product comprising at least one (I) and opt an abrasive, where (I) is in the form of a co-processed composition prepared by co-processing (I) with (II);
- (4) a co-processed composition comprising at least one (I) and at least one (II);
- (5) a pharmaceutical, food or confectionery product containing the above co-processed composition and optionally at least one alkaline ingredient.
- (6) a process for preparation of the above co-processed composition comprising:
(a) mixing the (II) and (I); (b) forming into granules or agglomerates; and (c) removing at least a portion of the water;
- (7) a chewing gum comprising at least one acid-sensitive additive and the above co-processed composition.

USE - For use in shelf-stable, low-moisture comestible, confectionery, dentifrice or pharmaceutical products containing acid-sensitive additives. The composition are also useful for increasing salivation and removing or preventing deposition of plaque on teeth. the products are useful in chewing gums, bubble gums, instant beverages, frozen desserts, toothpaste and dental floss. Acidulents or acids are used in comestible and dentifrice products for a variety of reasons, e.g. acid is used in chewing gums to increase saliva production for treatment of xerostomia or dry mouth or for use during exercising and is also used to soften plaque on teeth. Acidulents function as flavour enhancers and improve the release of flavour in confectionery products such as hard candies, gummy candies and chewing gum.

ADVANTAGE - For minimizing degradation of acid-sensitive additives.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: CO PROCESS COMPOSITION ACID WATER SOLUBLE CRYSTAL COMPOUND

DERWENT-CLASS: B07 D13 D21

CPI-CODES: B04-C02B; B04-D01; B05-A01B; B05-A03B; B05-B01P; B10-C02; B12-M11; B14-N06; D03-E09; D08-A05;

CHEMICAL-CODES:

Chemical Indexing M2 *01*

Fragmentation Code

A313 A940 C108 C550 C730 C801 C802 C803 C804 C805
C807 M411 M431 M782 M904 M905 M910 P913 Q211 Q254

Specific Compounds

01544K 01544M

Registry Numbers

1544U

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB,JPAB,EPAB,DWPI	129 and oil	55	<u>L30</u>
USPT,PGPB,JPAB,EPAB,DWPI	128 and (citric or malic or adipic)	60	<u>L29</u>
USPT,PGPB,JPAB,EPAB,DWPI	((separate or distinct) adj3 (region or area or section or matrix)) and (candy or lozenge or (chewing adj1 gum))	235	<u>L28</u>
USPT,PGPB,JPAB,EPAB,DWPI	121 and ((separate or distinct) adj3 (region or area or section or matrix))	3	<u>L27</u>
USPT,PGPB,JPAB,EPAB,DWPI	121 and ((separate or distinct) adj3 (region or area or section or matrix))	3	<u>L26</u>
USPT,PGPB,JPAB,EPAB,DWPI	121 and ((separate or distinct) adj3 (region or area or section))	3	<u>L25</u>
USPT,PGPB,JPAB,EPAB,DWPI	123 and (oral or candy or lozenges)	92	<u>L24</u>
USPT,PGPB,JPAB,EPAB,DWPI	122 and (acid\$ and sugar\$)	95	<u>L23</u>
USPT,PGPB,JPAB,EPAB,DWPI	121 and (matrix or region)	249	<u>L22</u>
USPT,PGPB,JPAB,EPAB,DWPI	((dry adj1 mouth) or xerostomia)	763	<u>L21</u>
USPT,PGPB,JPAB,EPAB,DWPI	440372.pn.	3	<u>L20</u>
USPT,PGPB,JPAB,EPAB,DWPI	4906455.pn.	3	<u>L19</u>
USPT,PGPB,JPAB,EPAB,DWPI	5151270.pn.	3	<u>L18</u>
USPT,PGPB,JPAB,EPAB,DWPI	114 and (candy or lollipop)	7	<u>L17</u>
USPT,PGPB,JPAB,EPAB,DWPI	114 and (candy or lollipop)	7	<u>L16</u>
USPT,PGPB,JPAB,EPAB,DWPI	114 and (oral adj2 (area or region or matrix))	1	<u>L15</u>
USPT,PGPB,JPAB,EPAB,DWPI	(saliva\$ adj2 (area or region or matrix))	69	<u>L14</u>
USPT,PGPB,JPAB,EPAB,DWPI	112 and (confection\$ or sugar)	88	<u>L13</u>
USPT,PGPB,JPAB,EPAB,DWPI	18 and oral	109	<u>L12</u>
USPT,PGPB,JPAB,EPAB,DWPI	110 and oral	85	<u>L11</u>
USPT,PGPB,JPAB,EPAB,DWPI	18 and ((dry adj2 mouth) or xerostomia or dry or saliva\$)	143	<u>L10</u>
USPT,PGPB,JPAB,EPAB,DWPI	18 and ((dry adj2 mouth) or xerostomia)	1	<u>L9</u>
USPT,PGPB,JPAB,EPAB,DWPI	17 and (isomalt or erythritol or sorbitol or mannitol)	189	<u>L8</u>
USPT,PGPB,JPAB,EPAB,DWPI	16 and ((corn or palm or coconut or canola) adj2 oil)	219	<u>L7</u>
USPT,PGPB,JPAB,EPAB,DWPI	14 and (menthol)	520	<u>L6</u>
USPT,PGPB,JPAB,EPAB,DWPI	14 (menthol)	14047	<u>L5</u>
USPT,PGPB,JPAB,EPAB,DWPI	13 and (citric or malic or succinic)	7023	<u>L4</u>
USPT,PGPB,JPAB,EPAB,DWPI	12 and (sucrose or glucose or fructose or maltose)	14796	<u>L3</u>
USPT,PGPB,JPAB,EPAB,DWPI	11 and (area or region or section or matrix)	51945	<u>L2</u>
USPT,PGPB,JPAB,EPAB,DWPI	(candy or gum or lollipop)	115685	<u>L1</u>

WEST

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Search Results - Record(s) 1 through 7 of 7 returned.☐ 1. Document ID: US 6294566 B1

L38: Entry 1 of 7

File: USPT

Sep 25, 2001

US-PAT-NO: 6294566

DOCUMENT-IDENTIFIER: US 6294566 B1

TITLE: Imidazoline derivatives and uses thereof

DATE-ISSUED: September 25, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wong; Wai C.	Newark	NJ		
Jeon; Yoon T.	Ridgewood	NJ		
Gluchowski; Charles	Danville	CA		

US-CL-CURRENT: 514/401; 548/333.1☐ 2. Document ID: US 6093727 A

L38: Entry 2 of 7

File: USPT

Jul 25, 2000

US-PAT-NO: 6093727

DOCUMENT-IDENTIFIER: US 6093727 A

TITLE: Imidazole and imidazoline derivatives and uses thereof

DATE-ISSUED: July 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wong; Wai C.	Newark	NJ		
Jeon; Yoon T.	Ridgewood	NJ		
Gluchowski; Charles	Danville	CA		

US-CL-CURRENT: 514/299; 514/300, 514/301, 514/302, 514/310, 514/312, 514/313,
514/401, 514/402, 546/112, 546/114, 546/115, 546/122, 546/143, 546/153, 546/155,
546/156, 546/157, 546/159, 546/183, 548/311.4, 548/312.1, 548/331.5☐ 3. Document ID: US 5968500 A

L38: Entry 3 of 7

File: USPT

Oct 19, 1999

US-PAT-NO: 5968500

DOCUMENT-IDENTIFIER: US 5968500 A

TITLE: Tissue moisturizing composition and method

DATE-ISSUED: October 19, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Robinson; Joseph R.	Madison	WI		

US-CL-CURRENT: 424/78.08; 424/78.02☐ 4. Document ID: US 5866579 A

L38: Entry 4 of 7

File: USPT

Feb 2, 1999

US-PAT-NO: 5866579

DOCUMENT-IDENTIFIER: US 5866579 A

TITLE: Imidazole and imidazoline derivatives and uses thereof

DATE-ISSUED: February 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wong; Wai C.	Newark	NJ		
Jeon; Yoon T.	Ridgewood	NJ		
Dhar; T. G. Murali	Newark	DE		
Gluchowski; Charles	Danville	CA		

US-CL-CURRENT: 514/259; 514/299, 514/300, 514/301, 514/302, 514/307, 514/309,
514/312, 514/313, 514/314, 514/397, 514/398, 544/284, 546/112, 546/114, 546/115,
546/122, 546/141, 546/142, 546/146, 546/147, 546/153, 546/155, 546/156, 546/157,
546/163, 546/167, 546/173, 546/176, 548/312.1, 548/333.1☐ 5. Document ID: US 5733529 A

L38: Entry 5 of 7

File: USPT

Mar 31, 1998

US-PAT-NO: 5733529

DOCUMENT-IDENTIFIER: US 5733529 A

TITLE: Ultramulsion based antigingivitis toothpaste compositions

DATE-ISSUED: March 31, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hill; Ira D.	Locust	NJ		
Walters; Peter P.	Neshanic	NJ		
Brown; Dale G.	Wharton	TX		

US-CL-CURRENT: 424/49

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 6. Document ID: US 5651959 A

L38: Entry 6 of 7

File: USPT

Jul 29, 1997

US-PAT-NO: 5651959

DOCUMENT-IDENTIFIER: US 5651959 A

TITLE: Ultramulsion based oral care compositions

DATE-ISSUED: July 29, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hill; Ira D.	Locust	NJ		
Walters; Peter P.	Neshanic	NJ		
Brown; Dale G.	Wharton	TX		

US-CL-CURRENT: 424/49; 132/321, 132/323, 424/401, 433/216, 433/217.1

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 7. Document ID: US 4980177 A

L38: Entry 7 of 7

File: USPT

Dec 25, 1990

US-PAT-NO: 4980177

DOCUMENT-IDENTIFIER: US 4980177 A

TITLE: Reduced-calorie saliva stimulating chewing gum compositions and methods for preparing same

DATE-ISSUED: December 25, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cherukuri; Subraman R.	Towaco	NJ		
Faust; Steven M.	Stanhope	NJ		
Mansukhani; Gul	Staten Island	NY		

US-CL-CURRENT: 426/3; 426/4

Full | Title | Citation | Front | Review | Classification | Date | Reference

KWIC | Draw Desc | Image

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Terms	Documents
l37 and (candy or lozenge or (chewing adj1 gum))	7

Display

20

Documents, starting with Document:

7

Display Format:

KWIC

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